ANALYSIS OF ROAD ACCIDENT IN OGUN STATE, NIGERIA (2008-2011)

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ABSTRACT

Data on monthly road accidents in Ogun State, Nigeria were collected from the Ogun State and investigated in order to fit a model for the monthly road accidents pattern. The study adopted the Box-Jenkins approach of model identification, parameter estimation and diagnostic check. The result revealed that the monthly road accidents is basically an ARIMA (2,1,1) model, ARIMA (2,1,0) model, ARIMA (2,1,1) model. The optimal order of these models was evaluated for model adequacy by the examination of the residual autocorrelation and the overall test of model adequacy using the Box-Pierce statistic and they were found to be adequate.